

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all previous listings.

1. (Currently amended) A resonator comprising a shell (1) having a pole (2) held by a support rod (3), the shell (1) having an annular edge (4) defined by an inside surface (5) and an outside surface (6) that are ~~geometrically similar~~ substantially hemispheres and that extend around a common axis of revolution (R), wherein a center (C1) of the inside surface (5) and a center (C2) of the outside surface (6) are offset relative to each other along the axis of revolution (5) with a predetermined distance (d) between the centers (C1, C2) and a radius (R1) of the inside surface (5) is different from a radius (R2) of the outside surface (6) in such a manner that the shell presents thickness (E) along the annular edge (4) that is greater than the thickness (e) that ~~is~~ the shell presents in the vicinity of the pole.

2. (Cancelled)

3. (Cancelled)

4. (Currently amended) A resonator according to claim 3 ~~1~~, wherein the centers (C1, C2) of the inside surface and of the outside surface extend on either side of a plane (P) containing the annular edge (4).